

The broadband telephony interface is provisioned by receiving information authenticating a provisioning server, establishing a communication channel between the user and the provisioning server over which is transmitted authorization information from the user to the provisioning server, and encrypting and transmitting a cryptographic key associated with the user to the provisioning server. The cryptographic key can be a symmetric key or a public key corresponding to a private key stored in the broadband telephony interface. The cryptographic key can be utilized to generate other keys which are utilized to secure communication channels for the telephony service. The broadband telephony interface advantageously can be implemented as untrusted hardware or software that is installed by a customer.